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Description automatically generated **Anand B. Patel**

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**Professional Summary:**

* Over 12 years of working experience in Enterprise Application Integration (EAI), Deployment Architecture, Business Process Management (BPM), Deployment Automation, DevSecOps and Web/Middleware Administration.
* Have extensive experience on AWS Cloud Infrastructure and services such as VPC, EC2, RDS, ECS, EKS, Route 53, S3 and Enterprise DevOps tools Gitlab, GitHub, Jenkins, Jira, Confluence, Dynatrace, Splunk, Sumologic.
* Expertise in containerization solution including Docker, AWS ECS, AWS EKS, RedHat’s Kubernetes container orchestration platform Openshift Container Platform (OCP)
* Migrated 100+ applications from on-prem to AWS across the organization.
* Transitioned 100+ applications from monolithic applications to containerization.
* AWS Certified Solutions Architect Associate
* Good hands-on experience with deploying and managing different AWS database services like RDS, DynamoDB.
* Designed deployment solutions for product teams and enabling them in implementing Continuous Integration and Continuous Delivery pipeline (CI-CD) solution using Gitlab CI / GitHub Actions / Jenkins framework.
* Implemented Infrastructure as code (IaaC) for automation of infrastructure (EC2, application load balancer, Beanstalk, AWS ECS, EKS) deployments using ansible, terraform scripts and CloudFormation templates.
* Supported applications running on AWS ECS, EKS, EC2, Beanstalk, RDS. Supported applications running on Java, Nodejs, Python and Go.
* Implemented deployment strategies using Canary, Blue-Green Deployments for Production Applications on AWS.
* Created Helm charts and deployed/upgraded applications on Kubernetes using helm deployments and Kustomize confirmation management tool.
* Created Webhook integration to push Sumologic and New Relic logs and metrics events into ServiceNow.
* Created Deployment/Build configurations for deploying applications on RedHat’s Openshift Kubernetes Container Platform (OCP).
* Created automation framework for deploying GitLab docker executor runners using CloudFormation templates.
* Designed and created various CI-CD pipelines for deploying multiple programming language applications in Java, Python, Nodejs, .NET using GitLab CI, Azure DevOps.
* Configured SAML/SSO (including 2FA) + System for Cross-Domain Identity Management (SCIM) with Azure Active Directory for several SDLC tools including GitLab, GitHub, Nexus, Jira, Confluence, Jama, AWS, Openshift Kubernetes, Jenkins, StatusPage, Imperva, New Relic, Thousand Eyes, Ansible Tower, Lucidchart.
* Created Golden security hardened EC2 images (AMIs), docker container images on AWS for different Operating Systems including Amazon Linux, Ubuntu, CentOS.
* Created AWS Site to Site VPN, AWS Transit Gateway connections to connect on-premise network with AWS cloud VPC.
* Created Metrics, Dashboards, and alerts for Java, Node.js based applications in New Relic, AppDynamics, ELK.

**Primary Skills & Roles:**

* Senior DevOps and Tools Engineer for Enterprise SDLC Solutions
* Designing Deployment Architecture and Site Reliability Engineering (SRE) for Commerce Cloud Business Systems (CCBS).
* Monitoring Architect and DevOps Engineer in Monitoring Center of Excellence (MCOE)

**Technical Skills:**

* **SDLC Tools:** Jira, Nexus, Docker, Gitlab CI, Jenkins, GitHub Actions, GitHub copilot, Azure DevOps, CheckMarx, Confluence, Jama, CA Devtest, WhiteSource, Subversion, CloudFlare, Imperva, PagerDuty, ServiceNow, Opsgenie, StatusPage, Cloudability, Zscaler, Hashicorp Vault, Hashicorp Terraform, Lastpass, CyberArk Vault.
* **Scripting Tools and Technologies:** XLDeploy, Jenkins, Ansible, Python, Terraform, Gitlab CI, AWS CloudFormation, Powershell, Linux Shell scripting, awscli, kubectl, eksctl, openshift cli (oc, rosa)
* **AWS Services:** EC2, RDS, VPC, Route 53, S3, Elastic Container Service (ECS) and Elastic Kubernetes Service (EKS), Codecommit, Codebuild, CodePipeline, Lambda, CloudFormation, Backup, Elasticache, CloudFront
* **Containerization Technologies:** Docker, AWS ECS, ECS Fargate, AWS EKS, RedHat OpenShift Kubernetes Platform, Red Hat OpenShift Kubernetes Service on AWS (ROSA)
* **Monitoring Tools:** AppDynamics, Dynatrace, ThousandEyes, New Relic, Sumologic, Splunk, AWS CloudWatch, Prometheus, ELK, Grafana
* **Application/Web/Database Platforms:** Java, .NET, Node.js, Websphere, Oracle Weblogic application server, Apache, Nginx, Microsoft IIS server, Oracle DB, MySQL, PostgreSQL, IBM Business Process Manager (BPM)
* **Application Testing Tools:** Jmeter, Selenium, SilkPerformer, JUnit, TestNG, Soap UI, Postman, CA (DevTest) Service Virtualization, Parasoft SOATest, Zephyr, Jama Test Management Tool
* **Operating Systems:** Windows Server 2012/2016 Standard, RedHat Linux 7/8, CentOS 7/8, Ubuntu, Amazon Linux 1/2.

**Work Experience:**

**Pitney Bowes Inc., Shelton, CT**

**Senior DevOps and Tools Engineer April 2017 – Present**

**Roles and Responsibilities:**

* Designing deployment solutions for product teams and enabling them in implementing Continuous Integration and Continuous Delivery pipeline (CI-CD) solution using Gitlab CI / GitHub Actions + copilot / Jenkins framework.
* Implemented GitLab end-to-end CI-CD solution for deploying applications on AWS Beanstalk, ECS Fargate.
* Implemented Infrastructure as code (IaaC) for automation of infrastructure (EC2, application load balancer, Beanstalk, AWS ECS, EKS) deployments using ansible scripts and cloudformation templates.
* Implemented Terraform scripts for deploying AWS VPC.
* Created AWS Site to Site VPN connections, AWS Transit Gateway to connect on-premise network with AWS cloud VPC
* Optimizing AWS footprint by resizing, tuning, scaling using Cloudability reports.
* Implementing auto-scaling of instances/containers to meet dynamic behavior of application load using Auto-Scaling Group.
* Created automation framework for deploying GitLab runners using CloudFormation templates.
* Created Helm charts and deployed/upgraded applications on Kubernetes using helm deployments and Kustomize configuration management tool.
* Monitoring of applications and K8s clusters using Prometheus and Grafana
* Design and implement virtual services (REST, SOAP) for test automation.
* Creating standards and procedures for development, product, and engineering teams for integrating best practices and in their software deployment lifecycle.
* Initiating and implementing Proof of concept before releasing to other engineering teams for incorporating in their product lifecycle.
* Enabling developers in product, engineering teams in building Cloud Native applications using appropriate tools and solutions.
* Baking in security scanning tools like checkmarx and whitesource into CI-CD pipeline.
* Integrating CI-CI pipelines to fetch secret credentials and variables from Hashicorp Vault.
* Implemented Zscaler connectors for routing network traffic on Intranet for applications that are not required to be exposed to Internet.
* Implemented Web Firewall, security rules using CloudFlare and Imperva for applications that are required to be exposed on Internet.
* Configuring of SAML/SSO + 2FA, SCIM provisioning for SDLC tools.
* Application performance monitoring of tools using AppDynamics, New Relic.
* Implementing backup procedures using AWS Backup service for Disaster Recovery (DR) procedures.
* Planning and developing strategies for monitoring of systems using best practices and procedures.
* Creating powershell, bash scripts for automation of repetitive tasks and scheduling using crontab on Linux and Windows schedular on Windows Operating systems.
* Creating Metrics, Dashboards, and alerts for different applications in New Relic, AppDynamics, ELK.
* Integrating with PagerDuty for creation of incidents and implementing self-healing scripts for issue resolution.
* Performing log, events, metrics analysis and analytics using sumologic and splunk log aggregation and creating meaningful dashboards.
* Providing on-call support for mission critical applications.

**Technical Environment:**

* **SDLC Tools:** Jira, Nexus, Docker, Gitlab CI, Jenkins, GitHub Actions, Azure DevOps, CheckMarx, Confluence, Jama, CA Devtest, WhiteSource, Subversion, CloudFlare, Imperva, PagerDuty, OpsGenie, StatusPage, Cloudability.
* **Monitoring Tools:** AppDynamics, Dynatrace, ThousandEyes, New Relic, Sumologic, Splunk, AWS CloudWatch, Prometheus, Grafana
* **Scripting Tools and Technologies:** XLDeploy, Jenkins, Ansible, Python, Terraform, Gitlab CI, AWS CloudFormation, Powershell, Linux Shell scripting, awscli, kubectl, eksctl, openshift cli (oc, rosa)
* **AWS Services:** EC2, RDS, VPC, Route 53, S3, Elastic Container Service (ECS) and Elastic Kubernetes Service (EKS), Codecommit, Codebuild, CodePipeline, Lambda, CloudFormation, Backup, Elasticache, CloudFront
* **Containerization Technologies:** Docker, AWS ECS, ECS Fargate, AWS EKS, RedHat OpenShift Kubernetes Platform.
* **Operating Systems:** Windows Server 2016 Standard, RedHat Linux 7/8, CentOS 6/7/8, Ubuntu, Amazon Linux 1/2.

**Information Technology Service Management (ITSM) for**

**New Jersey Manufacturers (NJM) Insurance Group, West Trenton, NJ (Amtex Systems Inc.)**

**DevOps Engineer for Web / Middleware technologies July 2014 – April 2017**

**Roles and Responsibilities:**

* Migrated Applications Java applications running on IBM Websphere to AWS.
* Setting up of Webspere Application server including installation and configuration.
* Installation and configuration, security configuration, IHS plugin configuration on BPM.
* Creation of deployment manager and custom profiles for BPM, WPS, WAS
* Standalone LDAP configuration with microsoft active directory LDAP server in BPM, WPS.
* Configuration of operating system and kernel parameters for BPM, WAS, WPS, Weblogic servers
* Administration and support of DEV, QA, UAT, Production environments for WAS, WPS, BPM, Tomcat, Weblogic, IBM MQ.
* Application deployment on WAS, BPM, ESB, Tomcat.
* Configuration of XL Deploy, Jenkins for automation of deployments using DevOps principles and best practices.
* Deploying web applications on IIS Web server.
* Implementing bash automation scripts for maintenance activities such as restarts, patching.
* Automation using PowerShell, python scripting on windows server.
* Automation using Jython, Jacl, bash and shell scripts on windows and linux environments.
* Administration and support for IBM MQ server including queue manager configuration.
* Configuring High availability MQ queues manager cluster with Microsoft cluster for failover.
* Establishing proof of concept by rigorous testing of fresh approach before implementing on various environments.
* Co-coordinating, participating and initiating meetings whenever required depending upon the situation to provide effective and efficient services to stake holders.
* Pro-active monitoring of log files using Splunk, Dynatrace for Websphere, weblogic and tomcat for identifying any bottleneck areas.
* Analytical analysis and root cause analysis on environmental issues.
* Updating and maintaining IT Infrastructure Library (ITIL) documentation including Incident Management, Configuration Management database (CMDB), Architectural structures, Network diagrams, Service level Management, Problem Management, Troubleshooting.
* Experience with Agile and Sprint release process and supporting the infrastructure under high-pressure environment.
* Establishing standards and security hardening procedures for establishing robust infrastructure.
* Guiding and mentoring junior team members.
* Providing 24\*7 On-call support for production issues.
* Troubleshooting of issues related to IBM BPM, WAS, WPS, ESB, WMQ, and Tomcat.
* Establish “Best Practices” and plan for continuous improvement of process.
* Interaction with AWS, IBM WebSphere and Oracle WebLogic product support teams for Issue resolution

**Technical Environment:**

* Web/Middleware Technologies: IBM Websphere Process Server, ESB, IBM Websphere Application Server, IBM Business Process Manager (BPM), IBM Websphere MQ, IHS Web-Server Apache 2.2, Tomcat, JBOSS, Microsoft IIS Web-Server
* AWS services EC2, RDS, Route 53, CloudWatch Logs and Metrics.
* Database: MS SQL Server, DB2, Oracle DB
* DevOps and automation tools: Docker, XL Deploy, Jenkins, PowerShell, Python, Jython, Jacl scripting
* Monitoring Tools: Dynatrace, Splunk.
* Operating Systems: Windows Server 2008, 2008 R2, 2012, RedHat Linux 6.0

**Fidelity Investments., Smithfield, RI (Amtex Systems Inc.)**

**System Administrator December 2013 – July 2014**

**Roles and Responsibilities:**

* Setting up of Business Process Manager (BPM) Advanced.
* Configuration of transaction logs, compensation logs on NFS shared mount (version 4) for setting up Environment for Disaster Recovery for BPM
* Installation, configuration and testing of In-doubt Test Applications and Distributed transaction Applications for Disaster Recovery testing.
* Working SOA (Service Oriented Architecture) & Business Process Management (BPM) Concepts
* Automation of configuring the transaction and compensation logs on NFS shared mount.
* Implementing shell scripts for replicating profiles from Production to Remote Data Center (DR site).
* Implementation on disaster recovery site for Oracle weblogic server.
* Ensuring successful DR drill for applications hosted on Oracle weblogic server.
* Establish “Best Practices” and plan for continuous improvement of process.
* Interaction with IBM WebSphere Product Support teams for Issue resolution

**Technical Environment:**

* IBM Websphere Application Server (WAS), IBM Business Process Manager (BPM) Advanced, Oracle Weblogic
* IBM Websphere ESB, IBM Process Designer
* IHS Web-Server Apache 2.2
* Operating Systems: Red Hat Linux, SUSE Linix

**Corporate Applications Support for Johnson Controls Inc. Mumbai (India) and Holland, MI (US)**

**(Tata Consultancy Services Ltd.)**

**Systems Engineer/ I.T. Analyst August 2011 – December 2013**

**Roles and Responsibilities:**

* Setting up of Websphere Process Server, Websphere Application Server, IBM HTTP Server (IHS), Business process Management (BPM) including Installation and Configuration
* Creation of deployment environment, profiles for BPM, WPS and WAS.
* Migration and upgradation of Business Process Manager from lower versions to higher versions.
* Refresh pack and fix pack upgrades on BPM, WPS, WAS.
* Configuring global security on Dmgr Integrated Solutions console.
* Apply patches on Websphere Process Server (WPS), Websphere Application Server (WAS), Oracle Weblogic, IBM HTTP Server (IHS) and Business Process Management (BPM)
* Administration and Maintenance of Websphere Process Server Network Deployment on a Golden Topology with combination of both Horizontal and Vertical Clustering.
* Troubleshooting of issues related to Websphere Process Server (WPS), Websphere Application Server (WAS), Business Process Management and Business Monitor.
* Installation and configuration of IBM Business Process Management (BPM) standard and advanced versions with golden topology.
* Configuration of Process Server and Process Center for BPM.
* Application deployment on different environments using Process Center for BPM.
* Installation and configuration of IBM Business Monitor and integrating with BPM.
* Configuring Standalone LDAP configuration with LDAP servers with and without SSL configuration.
* Automation of restart activities of BPM, WPS and Business Monitor using wsadmin scripting using Python and Jython languages.
* Monitor messages using IBM MQ Explorer for IBM MQ.
* Implementation of Dynamic clustering on WAS 8.5
* Installation and configuration of IBM Process Designer on local machine for supporting development teams issues.
* Install and configure Websphere commerce server for production and staging environments
* Establishing and documenting “Best Practices” and plan for continuous improvement of process.
* Resolution of Production Issues within Service Level Agreement (SLA) for the global support project
* Interaction with IBM WebSphere Product Support teams for Issue resolution
* Providing 24\*7 onsite and remote support for Production issues.

**Technical Environment:**

* IBM Websphere Process Server (WPS), IBM Websphere Application Server (WAS) , IBM Websphere Commerce Server, IBM Business Process Manager (BPM), IBM Process Designer, IBM Business Monitor, IBM Worklight, IBM License Metric tool (ILMT), IBM MQ Explorer
* Oracle Weblogic Application Server
* Apache Webserver 2.2, IHS Web-Server 2.2
* Dynatrace monitoring tool.
* Oracle 10 G, 11G
* Operating Systems: Windows, Unix (HP-UX), SUSE Linux

**Ultimatix Technical Support, Mumbai, India (Tata Consultancy Services Ltd.)**

**Systems Administrator / Systems Engineer July 2008 – August 2011**

**Roles and Responsibilities:**

* Involved in Application production support for all Global Applications of Ultimatix, including the Appraisal, Talent Mgmt, and Employee Self Service & Procurement Systems.
* Contributed in the design and implementation of the infrastructure setup for these Applications and actively involved in Capacity Planning & Performance Tuning.
* Heading the core WPS Migration team involved in performing WPS BPEL migration for version upgrades.
* Pro-active monitoring of log files for websphere and weblogic server log files for identifying potential bottleneck areas.
* Setup and Support for TCS Real Time Integration of applications (EAI) using Enterprise service Bus (ESB).
* Involved in Learning & Development of fellow associates of various teams on IBM Websphere Process Server & Oracle Weblogic Application Server.
* Interaction with IBM Support Team for Issue Resolution

**Technical Environment:**

* IBM Websphere Process Server (WPS), IBM Websphere Application Server (WAS)
* Oracle BEA Weblogic, Apache Webserver 2.2
* Database: MS-SQL, Oracle Database 10G, 11G
* Programming languages: Python, Jython, jacl, shell scripting
* Operating Systems: Windows, Unix (HP-UX, AIX), Red Hat Linux

**Education:**

* Bachelor of Engineering in I.T. from Dwarkadas J. Sanghvi College of Engineering, University of Mumbai, India.